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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
1758-4036US2

SERIAL NO.
09/120,044

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

Conceicao Minetti, et al.

FILING DATE
July 21, 1998

GROUP ART UNIT

1643 164

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
57	A	WO 96/05859	02/29/96	PCT				
57	A	WO 95/16711	06/22/95	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

57	A	F. Michon, et al., Multivalent pneumococcal capsular polysaccharide conjugate vaccines employing genetically detoxified pneumolysin as a carrier protein, <u>Vaccine</u> , Volume 16, No. 18, November 1998, pp. 1732-1741.
EXAMINER		DATE CONSIDERED
57		08 Nov. 99

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 4

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 1758-4036U82	SERIAL NO. 09 120,044
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Conceicao Mined	
		FILING DATE July 21, 1998	GROUP ART UNIT 1643 1641

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	A	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
57	A	5, 623, 057	04/22/97	Marburg, Stephen, et al.	530	404	05/20/94
57	A	5, 565, 204	10/15/96	Kuo, Joseph S. C., et al.	424	244.1	08/24/94

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	A	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
57		WO 90/06951 ✓	06/28/99	PCT				
57		0 687 688 A1 ✓	12/20/95	European				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

57	A		Peter J. Morgan, et al., Structural and functional characterisation of two proteolytic fragments of the bacterial protein toxin, pneumolysin, <u>FEBS Letters</u> , Volume 412, No. 3, August 4, 1997, pp. 563-567.
57	A		Jamie Rossjohn, et al., Structure of a Cholesterol-Binding, Thiol-Activated Cytolysin and a Model of Its Membrane Form, <u>Cell</u> , Volume 89, May 30, 1997, pp.685-692.
57	A		Robert A. Lock, et al., Sequence variation in the <i>Streptococcus pneumoniae</i> pneumolysin gene affecting haemolytic activity and electrophoretic mobility of the toxin, <u>Microbial Pathogenesis</u> , Volume 21, 1996, pp. 71-83.

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						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

SD	A	Joseph Kuo, et al., Characterization of a Recombinant Pneumolysin and Its Use as a Protein Carrier for Pneumococcal Type 18C Conjugate Vaccines, <u>Infection and Immunity</u> , Volume 63, No. 7, July 1995, pp. 2706-2713.
SD	A	Jay C. Butler, et al., Serotype Distribution of <i>Streptococcus pneumoniae</i> Infections among preschool Children in the United States, 1978-1994: Implications for development of a Conjugate Vaccine, <u>The Journal of Infectious Diseases</u> , Volume 171, No. 4, April 1995, pp. 885-889.
SD	A	Janet E. Alexander, et al., Immunization of Mice with Pneumolysin Toxoid Confers a Significant Degree of Protection against At Least Nine Serotypes of <i>Streptococcus pneumoniae</i> , <u>Infection and Immunity</u> , Volume 62, No. 12, December 1994, pp. 5683-5688.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

57	A	Jim Hill, et al., Amino Acids in Pneumolysin Important for Hemolytic Activity Identified by Random Mutagenesis, <u>Infection and Immunity</u> , Volume 62, No. 2, February 1994, pp. 757-758.
	A	Gianfranco Menestrina, et al., Structural features of the pore formed by <i>Staphylococcus aureus</i> α -toxin inferred from chemical modification and primary structure analysis, <u>FEMS Microbiology Immunology. Infection: Host Response and Immunity</u> , Volume 105, Nos. 1-3, September 1992, pp. 19-28.
57	A	James C. Paton, et al., Purification and Immunogenicity of Genetically Obtained Pneumolysin Toxoids and Their Conjugation to <i>Streptococcus pneumoniae</i> Type 19F Polysaccharide, <u>Infection and Immunity</u> , Volume 59, No. 7, July 1991, pp.2297-2304.

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47	A	Margaret J. Green, et al., Site-Directed Mutagenesis of the Hole-Forming Toxin Aerolysin: Studies on the Roles of Histidines in Receptor Binding and Oligomerization of the Monomer, <u>Biochemistry</u> , Volume 29, No. 8, February 27, 1990, pp. 2177-2180.
47	A	Abstract W/PM-B4, A.S.A. Minetti, et al., Structural And Functional Characterization of Recombinant Streptococcal Pneumolysin, <u>Biophysical J.</u> , Volume 74, No. 2, February 1998, p. A233.
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